

Environmental Stewardship in Carroll County

2019



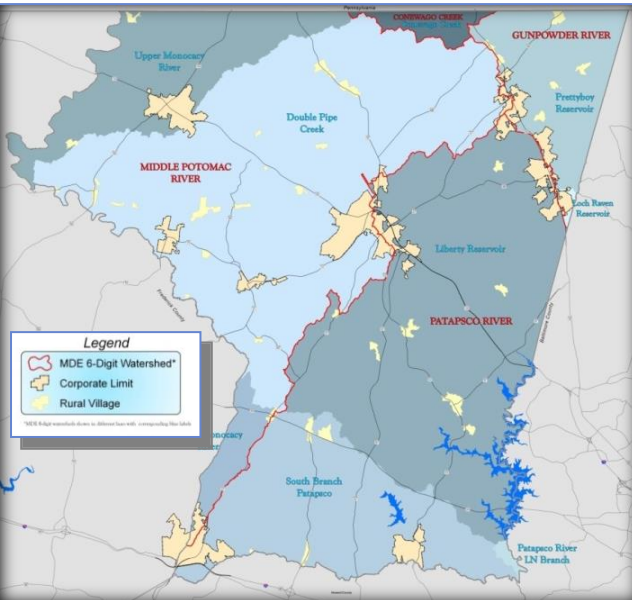
March 2019

Commissioners' Environmental Principles

1. Maintain and improve environmental quality and encourage economic prosperity while preserving the county's rural character.
2. Promote land use, planning, and development concepts and practices that support citizens' health, safety, well-being, individual rights and the economic viability of Carroll County.
3. Maintain safe and adequate drinking water and other water supplies including efforts to protect and restore the Chesapeake Bay.
4. Strive to protect our natural resources for future generations.

Carroll ranks among the top county programs in the U.S. with the number of acres preserved through conservation easements.

Program	Acres Preserved
MALPF	43,934
Carroll County	20,714
Rural Legacy	4,458
Land Trusts & Conservancies	2,517
Totals	71,623

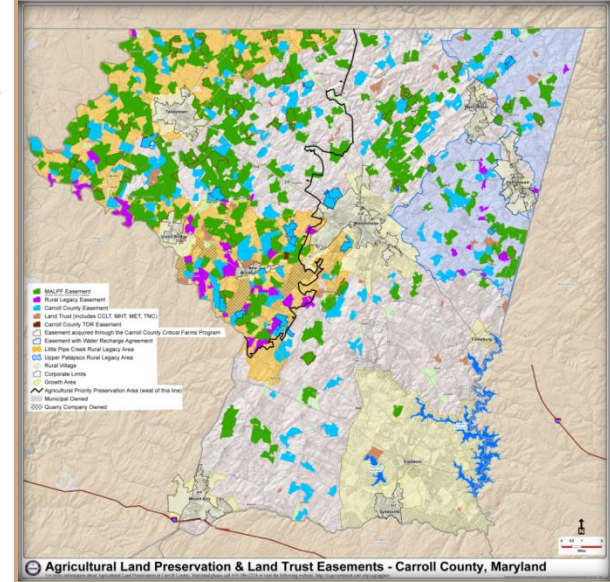


Since FY 1980, Carroll spent over \$221M in State & County funds toward achieving the goal of 100,000 ACs of farmland preserved.



As of October 2018, water recharge areas were protected on 3,562 acres incorporated into 25 easements.

From FY 1980 through FY 2018, 71,623 acres were permanently preserved through easement programs, which is roughly 1/4 of the total county land area.

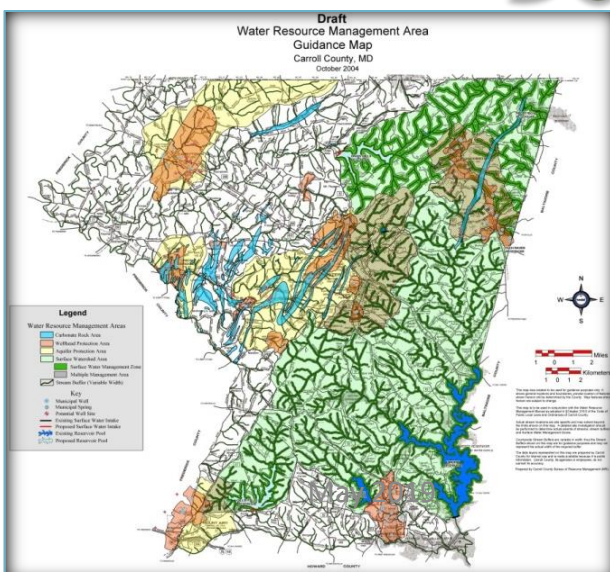


Easement Type	Acres Preserved	# of Easements
Water Resource Protection	1,962	394
Floodplain Protection	690	217
Forest Conservation	4,202	1,531
Totals	6,854	2,142

Little Pipe Creek and Upper Patapsco Rural Legacy Areas encompass 58,575 and 40,170 ACs of preserved land, respectively.

Carroll protected 258 miles of buffered streams.

- Carroll County drains to 9 different watersheds:
- Upper Monocacy River
 - Conewago Creek
 - Prettyboy Reservoir
 - Double Pipe Creek
 - Liberty Reservoir
 - Loch Raven Reservoir
 - Lower Monocacy River
 - South Branch Patapsco River
 - Lower North Branch Patapsco River



Carroll County Forest Conservation Acres Banked

Element	Acres
Total bank acres	563
Other acreage	
On-site retention	3,351
On-site planting	1,475
Off-site planting	314

Source: Carroll County Forest Conservation State Report, FY 1992 to FY 2017

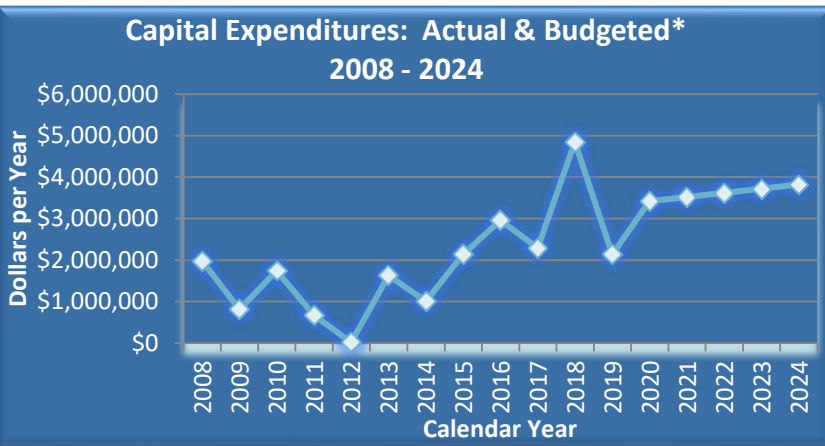
For every 1,000 residents, Carroll provides 47 AC of parks & recreation lands + 35 AC of natural resource lands.

Under the MOA, the Carroll County Commissioners pay 80% of the municipalities' capital costs to meet their restoration requirement.

Impervious Area	Acres	Percent
Untreated County	8,070	2.8% of County area
Restoration Requirement	1,614	20% of Total Urban Impervious
Progress to Date for This Permit Term	1,635	101%



~23 (~54.7%) of 42 LRM employees are involved in watershed restoration initiatives.



Source: NPDES MS4 Annual Report. *Capital Programs included: Watershed Assessment and Improvement (NPDES), Environmental Compliance, and Stormwater Facility Renovations



From July 2005 to June 2018, the County invested almost \$22.3M in capital outlays, not including >\$6M in grants from outside sources.



For the 6-year period 2019 to 2024, Carroll will invest almost \$14M in operating and >\$20.4M in capital expenses, assuming no additional grants are received. This equates to an annual expenditure of ~\$5.7M over that period.



FY 2019-2024	Capital	Operating
Total Budget	\$20,400,000	\$14,000,000
Average Annual Budget	\$3,400,000	\$2,333,000

So far, 158.32 acres of trees have been planted in Carroll County since spring 2013 on both private landowner properties as well as municipality-owned land. Plantings by watershed include:

- 55.24 acres in Double Pipe Creek
- 34.79 acres in Liberty
- 12.22 acres in Lower Monocacy
- 11.17 acres in Prettyboy
- 16.70 acres in South Branch
- 28.20 acres in Upper Monocacy

Stream buffers are vegetated areas along streams that reduce erosion, sedimentation, and pollution of water.

Citizens throughout the county can call the non-emergency Stormwater Pollution Prevention Hotline to report suspected illicit discharges, illegal dumping, and spills.

410-386-2210

Annual operating expenditures for the stormwater program more than doubled since 2008, from ~\$334,000/yr to >\$1.9M/yr.

The County installed solar arrays on 3 different County properties – Carroll Community College, Hoods Mill Landfill, and Hampstead WWTP – to conserve energy and realize cost savings. These facilities came online in 2018.

Lot Size	Solar Panel Surface Area Maximum Square Footage for Ground-Mounted Systems
<= ½ acre	120 square feet
>½ acre	240 square feet
>1 acre to 3 acres	480 square feet
>3 acres	Aggregate square footage of the roof, or roofs of structures, situated on the subject property

Permits Issued in Carroll County for Solar Energy Conversion Facilities FY 2015, 2016, 2017, & 2018

Fiscal Year	# of Permits
2015	383
2016	606
2017	463
2018	312

